



SEMI-AUTOMATIC JAR OPENER

BACKGROUND OF THE INVENTION

Field of the invention:

The present invention relates to a semi-automatic jar opener adapted for unscrew the lid from any size of jars coming from food stores or groceries without physical strenght.

Description of the related art:

A search of prior art records has unveiled the following Canadian patent:

1. No. CA 432,070 issued in 1945 to Gaulin.

The patent to Gaulin is probably the most relevant.

As is known, many persons use the bottle and jar opener from Gaulin.

As can be seen, the problem encountered is that the jar opener is not semi-automatic, and is not conceived for the elders having little or no physical strength and for the handicapped persons, because they must to take the jar or the bottle in the left hand, take the opener in the right hand, place it on top of the cover, and make a twist of the wrist in anticlockwise direction for remove the cover from any bottle or jar.

To overcome the above-mentioned problem, the applicant has developped a semi-automatic jar opener used for unscrew the lid from any

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size of jars without physical strenght.

Summary of the invention:

The gist of the invention is therefore to provide a semi-automatic jar opener allowing to handicapped persons, elders and the other persons to unscrew the lid from any size of jars coming from food stores or groceries without physical strenght.

The present invention shows a semi-automatic jar opener made up of a lower part allowing to squeeze the jar in accordance with the desired size and to make turn it, and of an upper part allowing to adjust manually the height of jar, and when the plate from the lower part turns, the jaws squeeze the lid for unscrew the jar.

Advantages of the invention:

- No physical strenght required from the user;
- Can be operated only with one hand;
- Easy to operate; and
- Does not require to be fixed at any surface.

Brief description of the several views of the drawing(s):

Figure 1 is a front perspective view of the semi-automatic jar opener showing the jar installed;

Figure 2 is a front elevational view thereof ;

Figure 3 is a perspective view showing the lower part from the semi-automatic jar opener;

Figure 4 is a perspective view showing the upper part from the semi-automatic jar opener;

Figure 5 is a cut view of the lower mechanism of the semi-automatic jar opener; and

Figure 6 is a cut view of the upper mechanism of the semi-automatic jar opener.

Detailed description of the invention:

As shown in figures 1, 2, 3 and 5, a semi-automatic jar opener (A) comprising a lower part made up of an electric motor (1) which is mounted under the lower part provided with a run button (16) allowing to activate a gear rack (10), the first jaws (4) provided with the first non-skid rubber strips (19) for squeeze a jar (2), and the first friction rubber strips (8) prevent the sliding of jar, and the electric motor (1) stops to operate when the lid of jar (2) shown in phantom lines is unscrewed.

The electric motor (1) makes turn the first plate (3) on which rest on the jar (2), which makes turn automatically the second plate (7) when it is

rest against the lid of jar (2) making close the second jaws (6) provided with the second non-skid rubber strips (20) maintaining firmly the lid of jar in position, the second friction rubber strips (18) prevent the sliding of lid, and when the jar (2) and the second plate (7) turn, the second jaws (6) close firmly on the lid until it reaches the required torsion for unscrew the jar.

As shown in figures 1, 2, 4 and 6, the semi-automatic jar opener (A) is also made up of an upper part joined to the lower part by the serrated vertical post (13) allowing to adjust manually the height of jar (2) by means of a shaft (21), the gears (12) and knobs (11), and which in pulling on the knob (11) provided with a means locking (15), it allows to serrated vertical post (13) to be unblocked for adjust manually the height of jar (2).

The extension (14) of the base (17) from the upper part allows to means locking (15) to block the knob (11) when the jar (2) is removed from the semi-automatic jar opener (A).